

 *MySpine*[®] S2AI
PERSONALIZED SACROPELVIC FIXATION

UNIQUE ANATOMIES PATIENT-MATCHED SOLUTIONS



Brochure

Joint

Spine

Sports Med

S2-ALAR/ALAR-ILIAC

S2-ALAR-ILIAC TECHNIQUE

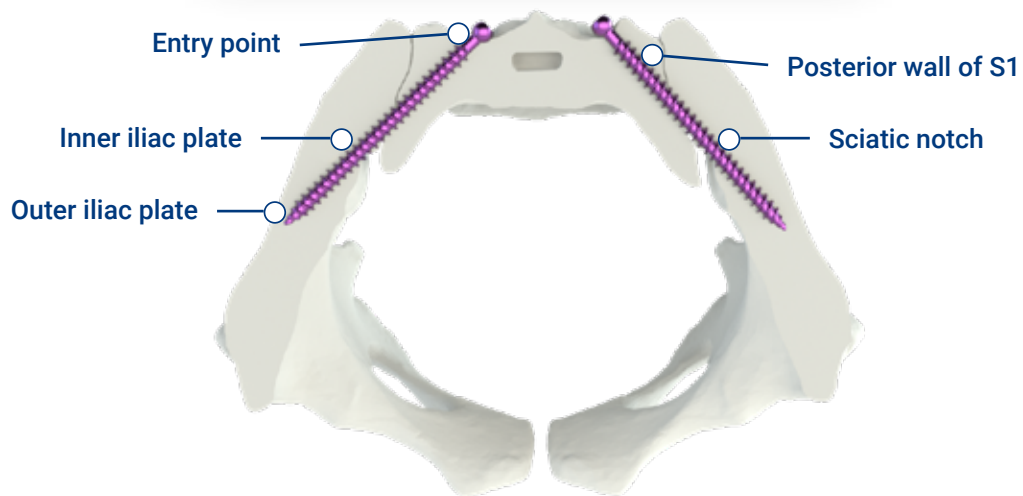
MySpine S2AI is the Medacta Patient-Specific Solution for **S2-Alar-Iliac fixation**: a **minimally invasive** solution at surgeon's hand for long constructs, designed to overcome the limits of a potentially insufficient lower spine fixation.

The S2-Alar-Iliac technique represents a valid solution since the trajectory crosses 5 cortical bone structures, resulting in a **strong bone fixation**, while the medial entry points **reduce** the need of **muscle dissection** leading to^[5]:

- **Reduced screw loosening rate**^{[5]*}
- **Lower incidence of Sacro-Iliac Joint pain**^{[5]*}
- **Small incision**^[5]
- **Less dissection**^{[5]*}

**compared with alternative lumbosacral instrumentations (S2-Alar and Iliac screws)*

5 CORTICAL BONE POINT FIXATION



Prominent conventional **Iliac screws** may lead to **irritation** and **pain** with **high revision rate**.^[2,5]

MYSPINE IS DIFFERENT!

MySpine guided **S2-Alar-Iliac** trajectory may allow for a **small incision** and **less lateral retraction**, and the medial entry point allows for a **quick rod connection**, thus eliminating the need for additional connectors.^[5]

PATIENT-MATCHED SOLUTIONS

MYSPINE S2AI VALUE PROPOSITION

MySpine is a **personalized surgical platform** that is **cost effective, efficient** and **intuitive**. MySpine provides pre-op planning, single-use patient-specific drill guides and intra-operative surgical plan.

MySpine S2AI
Pre-Op Plan

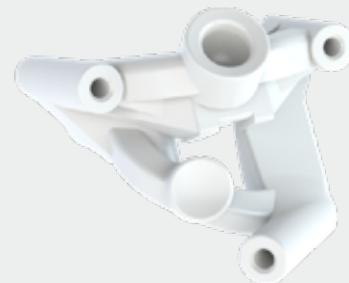
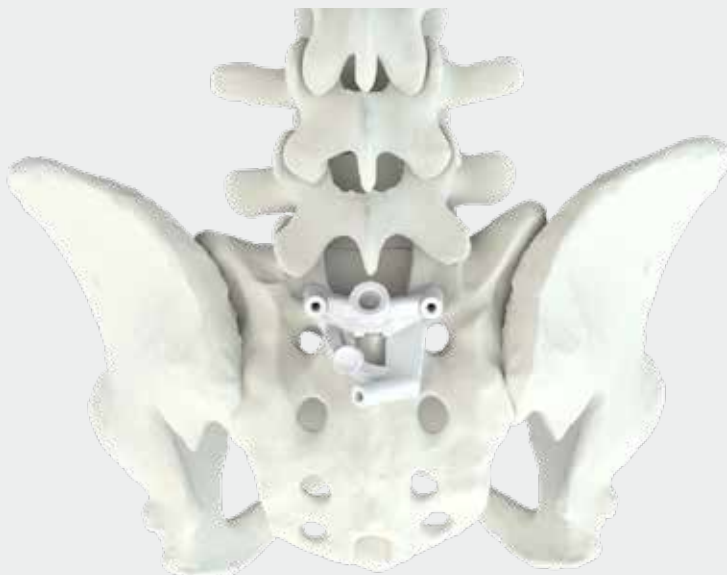


MySpine S2AI
3D Planning

MySpine S2AI can be used in those treatments where **strong bone fixation** is required, as it may provide^[1]:

- Robust bone anchor and improved pelvic tilt correction in **Adult Spine Deformity**
- Spine balance recovery in rigid neuromuscular **Adolescent Idiopathic Scoliosis**
- Added value in fixing **fractured segments**

The guided technique leads to **precise screw placement**, comparable to that offered by gold standard navigation tools, while **reducing the radiation exposure and the surgical time**.^[3,4]



- **HIGH ACCURACY**
- **LOW X-RAY RADIATION DOSE**
- **LOW PROFILE**

THE MYSPINE JOURNEY



1. IMAGE ACQUISITION

Low Dose CT scan to deliver 3D reconstructed vertebrae and the pelvic region



2. 3D PRE-OP PLAN MANAGEMENT

The surgeon defines optimal implant parameters



3. 3D PRINTING

Patient-matched Jigs are sent to the hospital



4. PROCTORED SURGERY

An experienced surgeon will support you during your first cases

REFERENCES

- [1] Sponseller P. et al., "Low Profile Pelvic Fixation With the Sacral Alar Iliac Technique in the Pediatric Population Improves Results at Two-Year Minimum Follow-up", *Spine*, September 15, 2010
- [2] Emami A. et al., "Outcome and Complications of Long Fusions to the Sacrum in Adult Spine Deformity: Luque-Galveston, Combined Iliac and Sacral Screws, and Sacral Fixation", *Spine*, April 1, 2002
- [3] Matsukawa K. et al., "Accuracy of cortical bone trajectory screw placement using patient-specific template guide system", *Neurosurgical Review*, July 2019
- [4] Matsukawa K. et al., "Cortical pedicle screw trajectory technique using 3D printed patient-specific-guide", *M.O.R.E. Journal*, September 2018
- [5] Krieg S. et al., "Revision by S2-alar-iliac instrumentation reduces caudal screw loosening while improving sacroiliac joint pain—a group comparison", *Neurosurgical Review*, September 2020 study

All trademarks are property of their respective owners and are registered at least in Switzerland.
This document is not intended for the US market. Please verify approval of the devices described in this document with your local Medacta representative.

